

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Identifier: ENVIROBROM G **Product Code:** 44A
Product Use: Microbiocide for industrial water treatment.
Chemical Family: Non-oxidizing biocide
Registration Number: 63838-16

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SECTION 2 - HAZARDS IDENTIFICATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). These requirements differ from the classification criteria and hazard information required for safety data sheets of non-pesticide chemicals. Please see Section 15 for FIFRA labeling information.

Classification of the Substance or Mixture:

Acute Toxicity - Oral Category 3
Acute Toxicity - Inhalation Category 2
Skin Corrosion - Category 1
Serious Eye Damage - Category 1
Sensitization - Skin - Category 1



Signal Word: DANGER

Hazard Statements:

Toxic if swallowed
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Fatal if inhaled

Precautionary Statements:

Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves/protective clothing/eye protection/face protection.
Wear respiratory protection.

Response

IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Wash contaminated clothing before reuse.
For specific treatment see Section 4 First Aid.

Storage

Store locked up.
Store in a well ventilated place. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local regulations.

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Hazards not Otherwise Classified:

No other hazards classified.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Synonym	CAS Number	Concentration
2,2-DIBROMO-3-NITRILOPROPIONAMIDE	DBNPA	10222-01-2	92-98%

SECTION 4 - FIRST-AID MEASURES

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower with a flushing duration of 30 minutes. Immediately call POISON CENTER/doctor. Wash contaminated clothing before re-use.

Eye Contact: Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 60 minutes. Take care not to rinse contaminated water into the unaffected eye or into the face. Immediately call a POISON CENTER/doctor. Continue rinsing until medical aid is available.

Ingestion: Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting unless told to do so by a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Most Important Symptoms and Effects, both Acute and Delayed: Contact with skin/eyes can cause irritation or severe burns and scarring with greater exposures. Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

Indication of any Immediate Medical Attention and Special Treatment Needed: Treat symptomatically

SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Use water spray, powder, foam, carbon dioxide.

Special hazards arising from the substance or mixture: Non combustible. May give off irritating or toxic fumes (or gases) in a fire.

Flammability classification (OSHA 29 CFR 1910.106) (Hazcom 2012): Non flammable

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds

Special protective equipment and precautions for firefighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear appropriate personal protective equipment as specified in Section 8. Keep unnecessary and unprotected personnel from entering.

Methods and materials for containment and cleaning up: Carefully sweep material into a designated PLASTIC waste container. Collect in plastic containers only.

Special spill response procedures: Collect spills in plastic containers only

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling: Put on appropriate personal protective equipment (see section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Do not contaminate water, food, or feed by storage or disposal.

Conditions for Safe Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from heat, open flames, incompatible materials and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Incompatible Materials: Avoid strong oxidizing agents, soft metals, acids, and heat.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation and engineering measures: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Respiratory Protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard of certification. Respirators must be used according to a respiratory protection program to ensure a proper fitting, training, and other important aspects of use.

Hand, Body and Skin Protection: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling. Gloves must be inspected prior to use and used with proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Eye/Face Protection: Wear safety glasses, goggles and/or face shield approved under an appropriate government standard to prevent eye contact.

Other Protective Equipment: Eye wash facility and emergency shower should be in close proximity.

General Hygiene Conditions: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industry hygiene and safety practice.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow-white tablet
Odor: Pungent/chlorine like odor
Odor threshold: No information available
pH: ~5 (1:100)
Melting/Freezing point: 122-125 °C/252-257 °F
Initial boiling point and boiling range: No information available
Flash Point: > 250 °C
Flammability (solid, gas): Non flammable
Solubility in water: Partially soluble
Decomposition temperature: No information available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Reactive with oxidizing agents, reducing agents, metals, acids and alkalis.
Chemical Stability: Stable under normal conditions
Possibility of Hazardous Reactions: May react with incompatible materials
Conditions to Avoid: Avoid contact with strong acids and oxidizers
Incompatible Materials: Alkalis, oxidizing agents, metals, acids and organic materials.
Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, halogenated compounds

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry - inhalation: YES
Routes of entry - skin & eye: YES
Routes of entry - ingestion: YES
Routes of entry - skin absorption: NO

Potential Health Effects:

Signs and symptoms of short term (acute) exposure:

Inhalation: Severe irritant. Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur.

Ingestion: Corrosive! Swallowing causes severe burns of mouth, throat, and stomach. Severe scarring of tissue, corrosion, permanent tissue destruction and death may result. Symptoms may include severe pain, nausea, vomiting, diarrhea, shock, hemorrhaging and/or fall in blood pressure. Damage may appear days after exposure.

Skin: Corrosive! Contact with skin causes irritation or severe burns and scarring with greater exposures. Harmful if absorbed through the skin.

Eye: Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

Potential Chronic Health Effects: Sensitization

Mutagenicity: No known effects on humans or animals

Carcinogenicity: No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.

Reproductive effects: No known effects on humans or animals

Sensitization to material: Prolonged contact can lead to sensitization at contact site.

Specific target organ effects: No known effects on humans or animals

Medical conditions aggravated by overexposure: No information available

Toxicological data: The calculated ATE values for this mixture are:

ATE oral = 308 mg/kg

ATE dermal = >2000 mg/kg

ATE inhalation = 4 h - 0.275 mg/l

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SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life.

Persistence and degradability: No information available

Bioaccumulation potential: No information available

Mobility in soil: No information available

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for disposal: Do not contaminate water, food, or feed by storage and/or disposal. When handling refer to protective measures listed in sections 7 and 8. Empty residue from containers, DO NOT rinse container.

Method of disposal: Dispose of in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA: Not a listed RCRA hazardous waste.

SECTION 14 - TRANSPORTATION INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Please note the GHS and DOT Standards are NOT identical and therefore can have varying classifications

US 49 CFR/DOT/IATA/IMDG Information:

UN No.: 2923

Corrosive solids, toxic, n.o.s. (2,2-dibromo-2-cyanoacetamide)

Transportation hazard class(es): 8 (6.1)

Packing Group: II

Environmental hazards: Marine Pollutant

SECTION 15 - REGULATORY INFORMATION

FIFRA Classification/Typical Hazard Labeling, as outlined in EPA Label Review Manual

Hazard Data

Signal Word	DANGER
Acute Toxicity, oral	Category II: May be fatal if swallowed
Acute Toxicity, dermal	Category III: Harmful if absorbed through skin
Acute Toxicity, inhalation	Category III: Harmful if inhaled
Skin irritation/corrosion	Category I: Corrosive. Causes skin burns
Serious eye damage	Category I: Corrosive, Causes irreversible eye damage
Sensitization	Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
Environmental (aquatic) toxicity	This pesticide is toxic to fish and other aquatic organisms.

US Federal Information:

TSCA information: All components are listed on the TSCA inventory.

SARA Title III: Acute Health Hazard

US State Right to Know Laws: California - None of the chemicals on the current Proposition 65 list are known to be present in this product.

International Information:

Canada: Listed in NDSL

Japan: Listed in METI

Australia: Listed in AICS

Korea: Listed in ECL

Germany: Water endangering classes, (WGK): Class 3

SECTION 16 - OTHER INFORMATION

Legend:

SARA: The Superfund Amendments and Reauthorization Act

RCRA: Resource Conservation and Recovery Act

TSCA: Toxic Substances Control Act

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CFR: Code of Federal Regulations

DOT: Department of Transportation

ATE: Acute Toxicity Estimate

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